

FIG. 1A

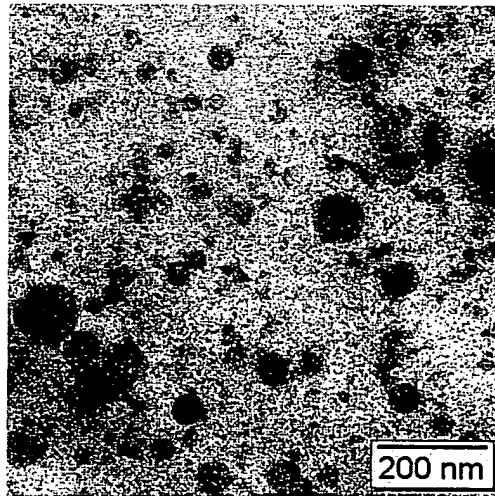


FIG. 1B

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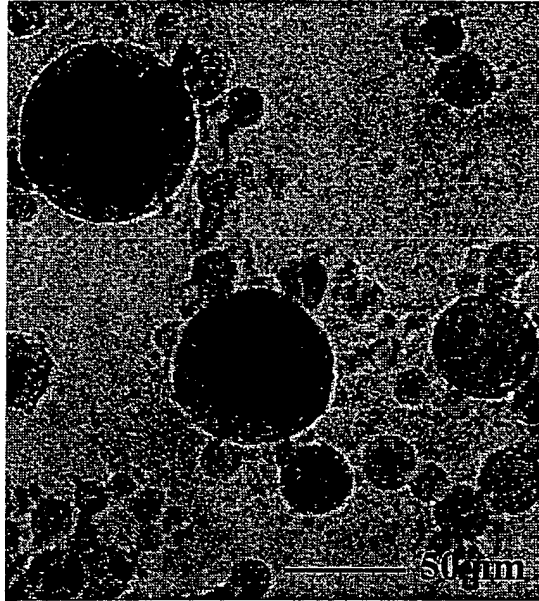


FIG. 2A

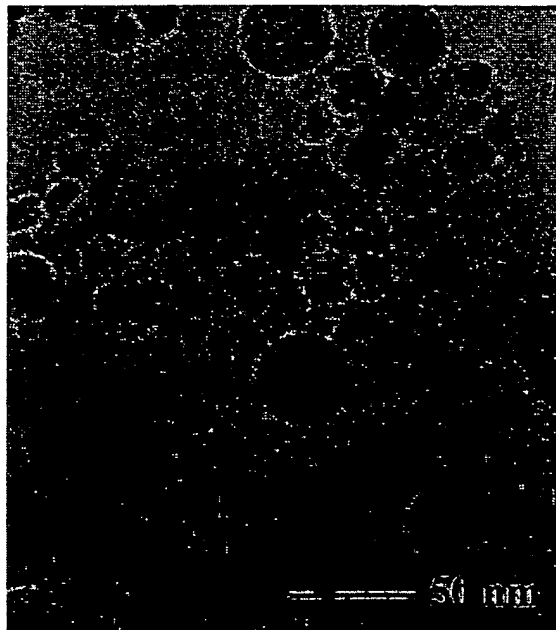


FIG. 2B

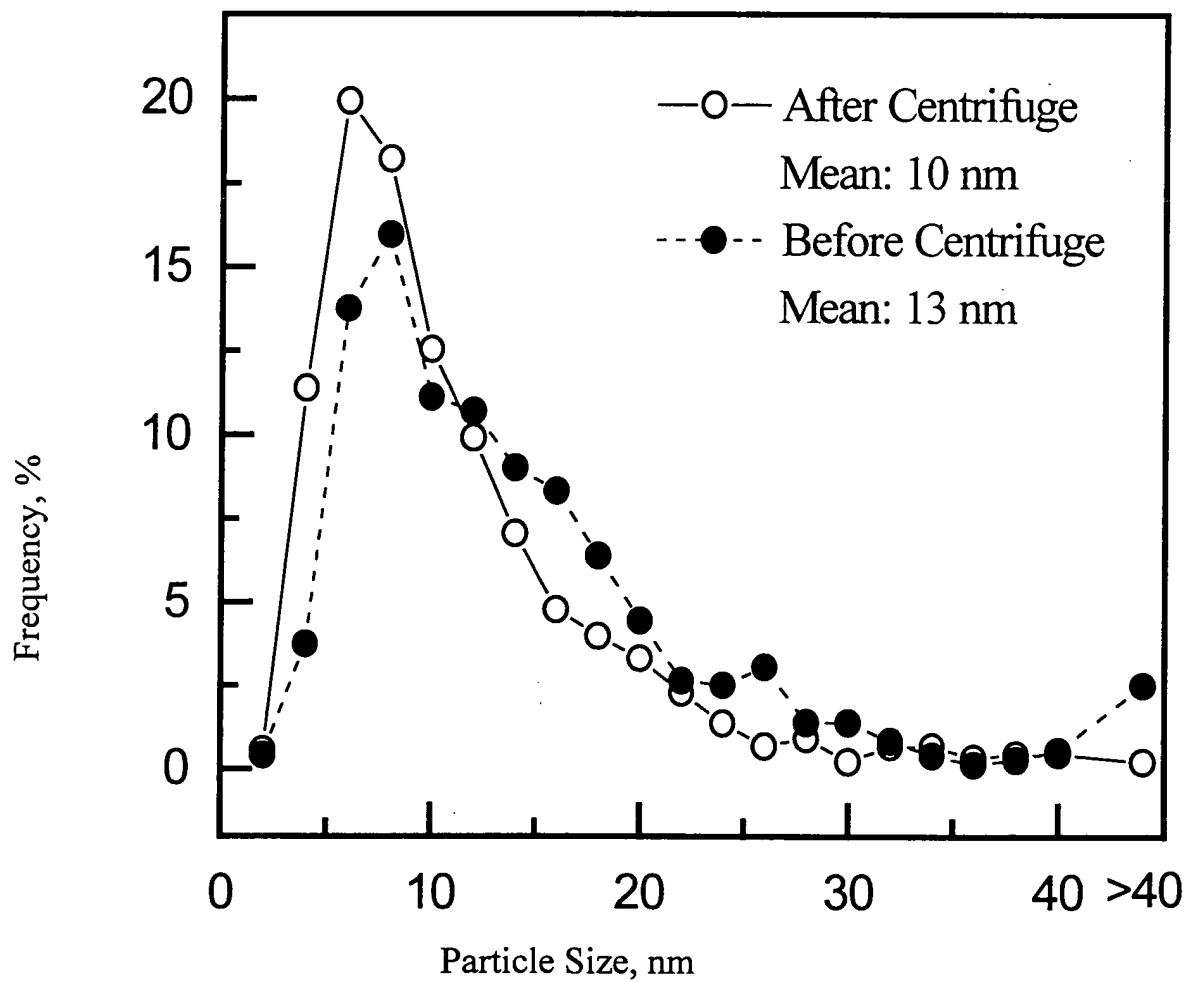


FIG. 2C

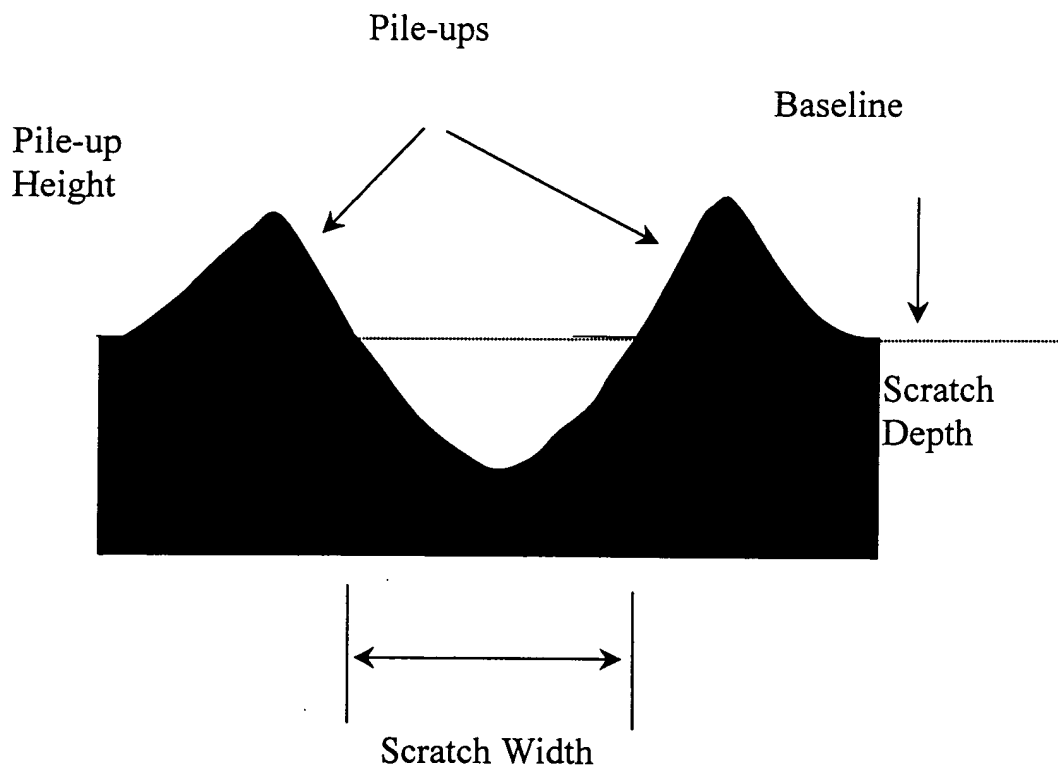


FIG. 3

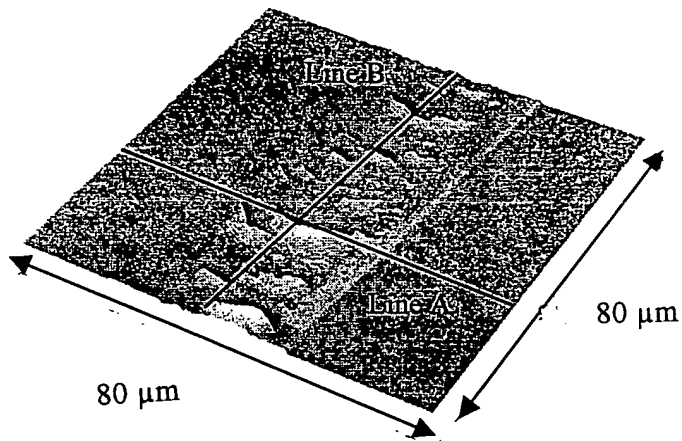
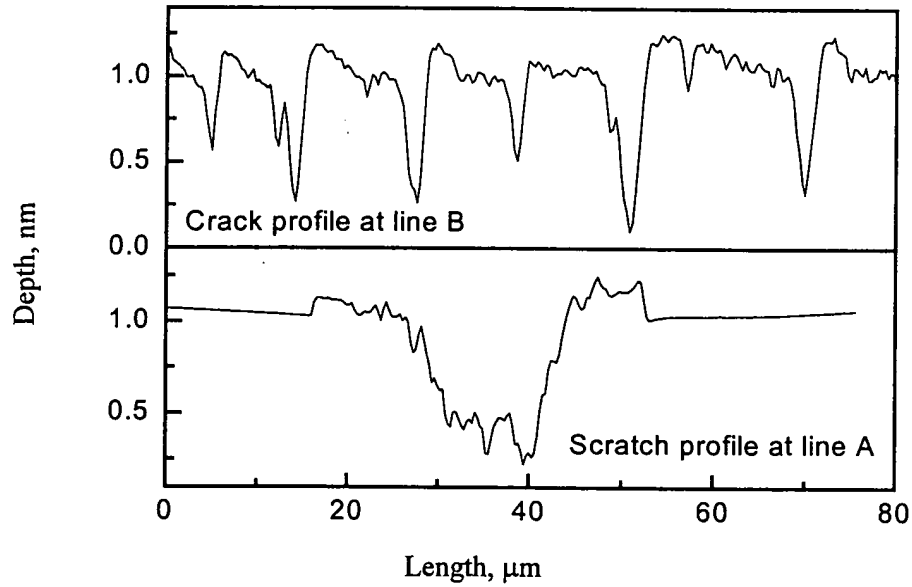


FIG. 4A



(a)

FIG. 4B

FIG. 4C

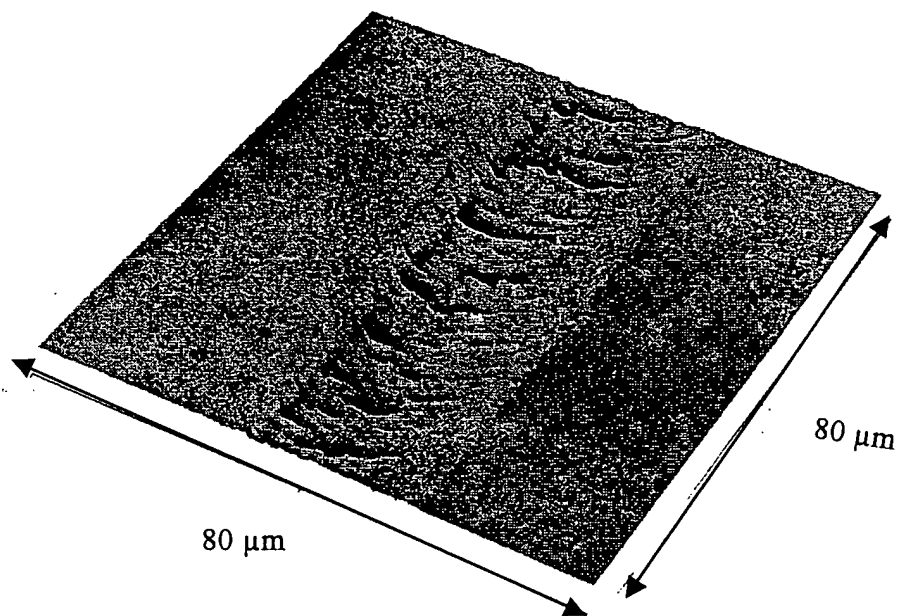
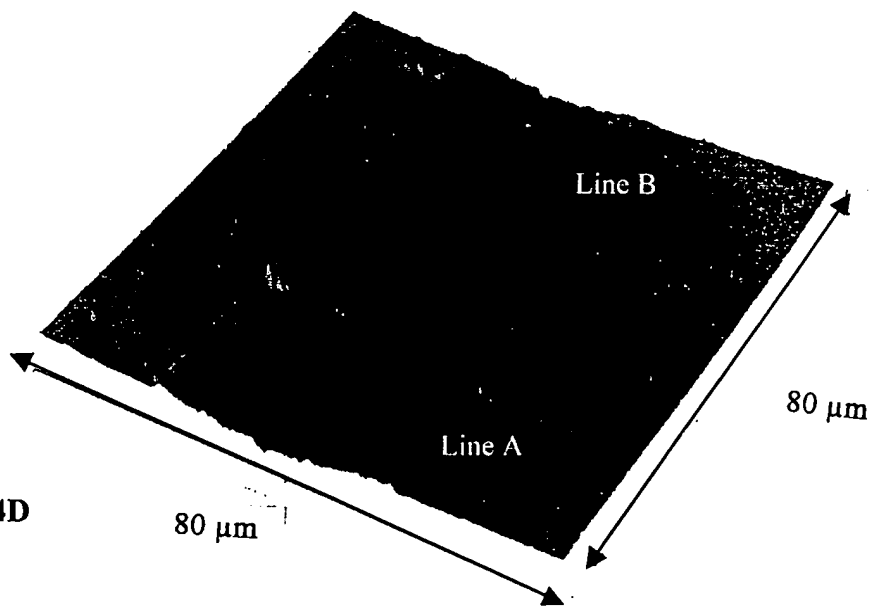


FIG. 4D



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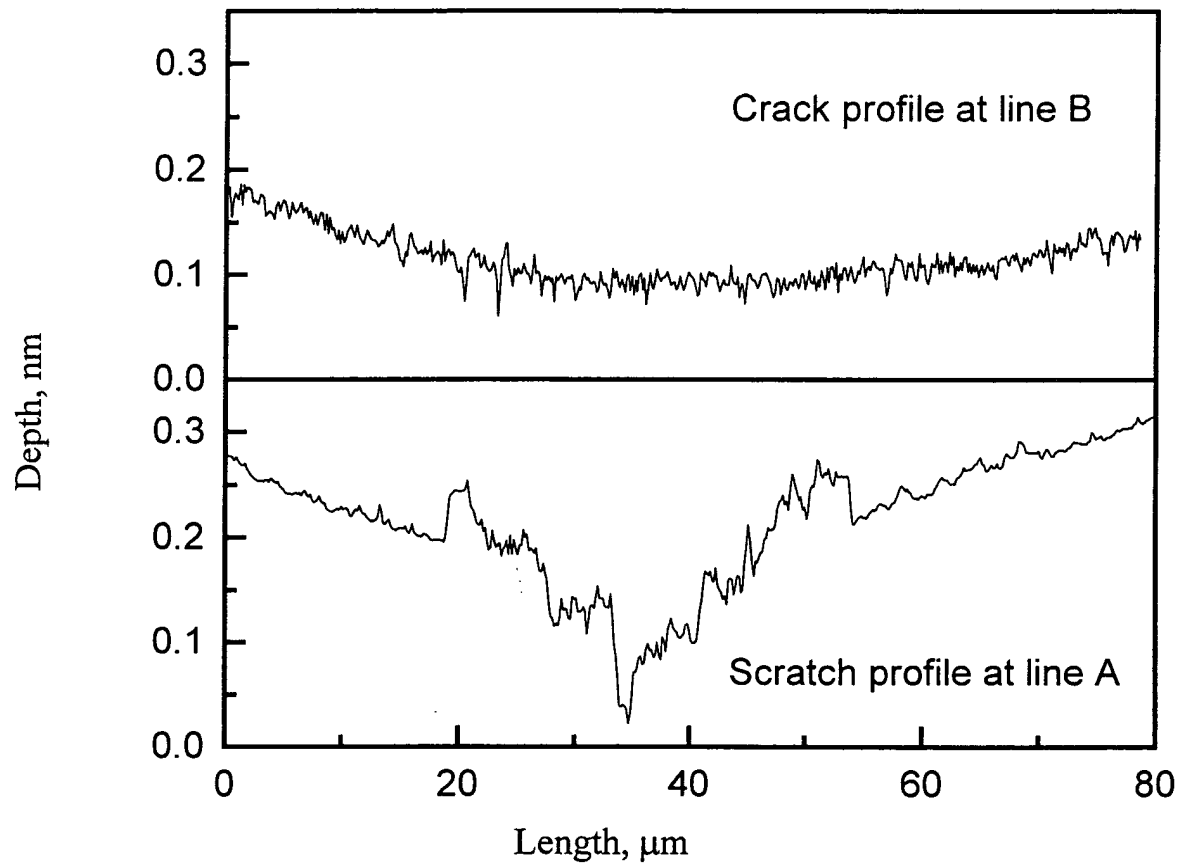


FIG. 4E

Concentration of as-received Al_2O_3 in the dry gel film, wt%

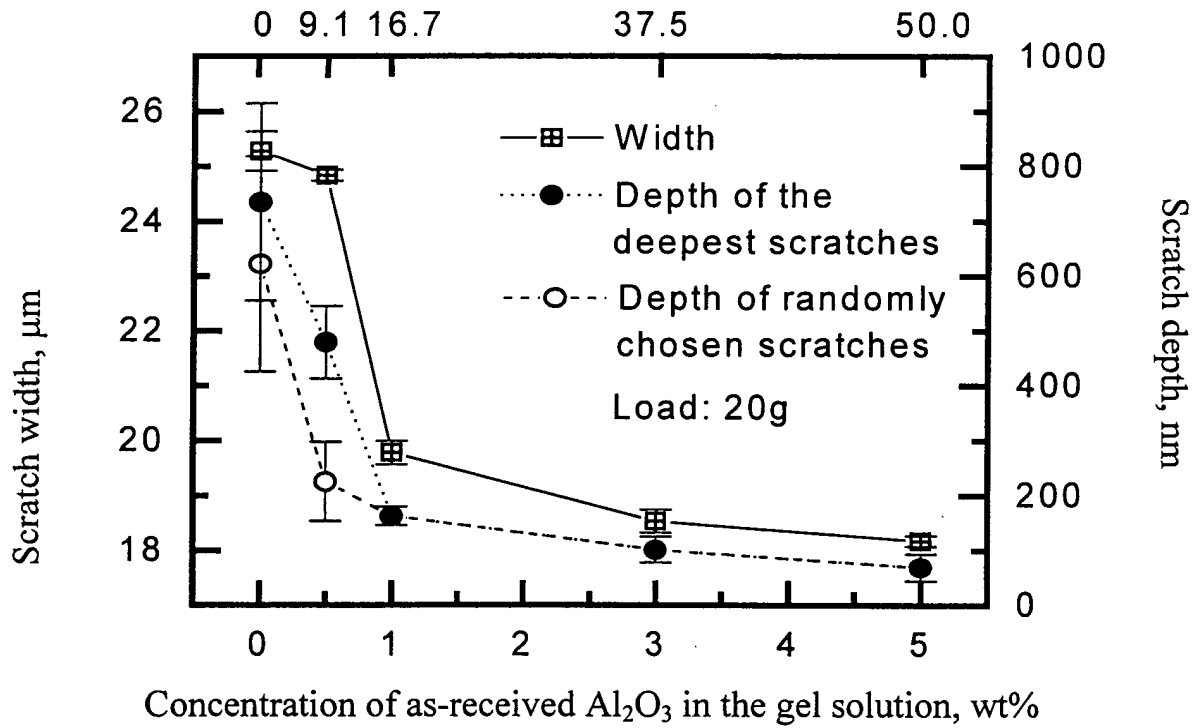


FIG. 5

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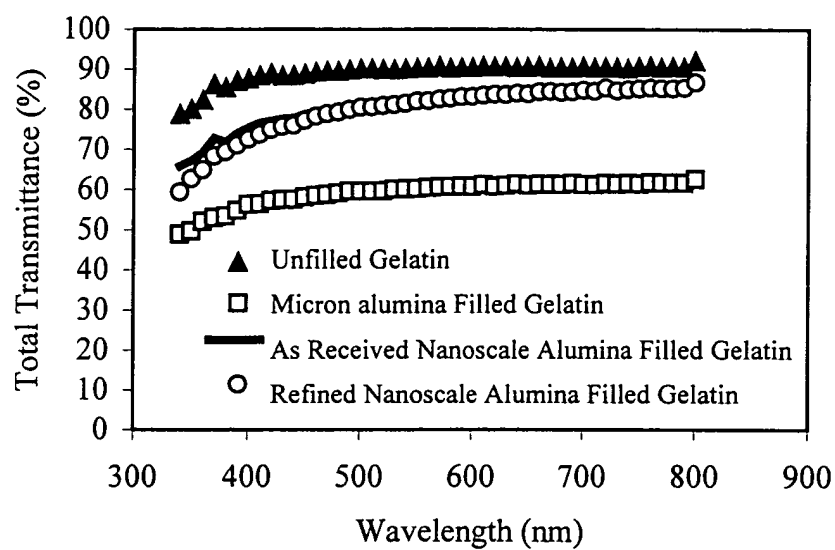


FIG. 6

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Concentration of refined Al_2O_3 in the dry gel film, wt%

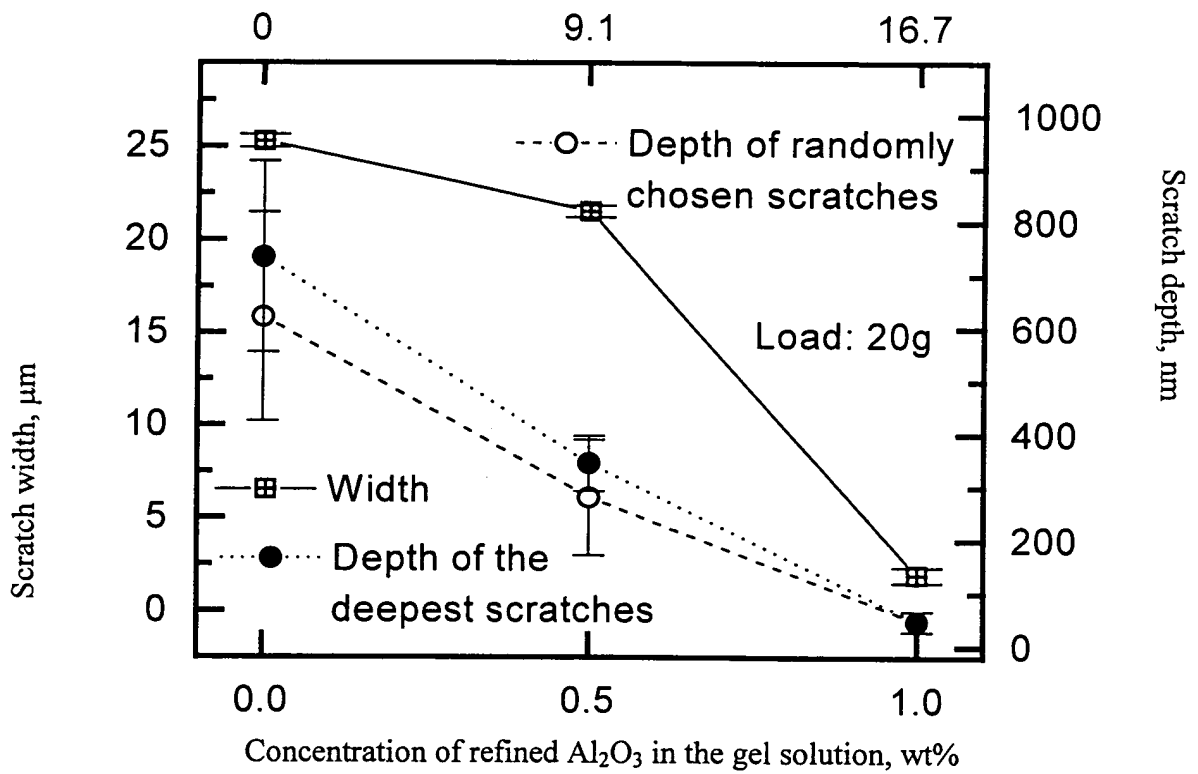


FIG. 7

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FIG. 9A

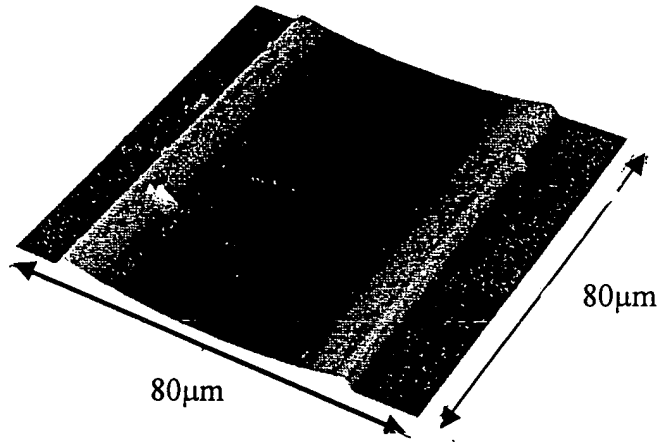


FIG. 9B

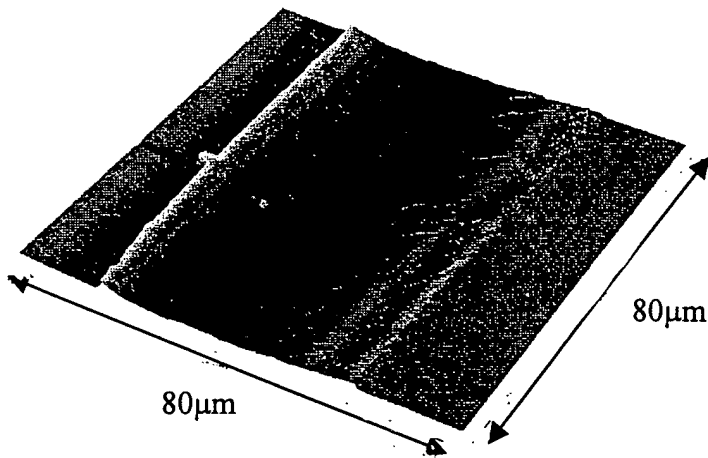
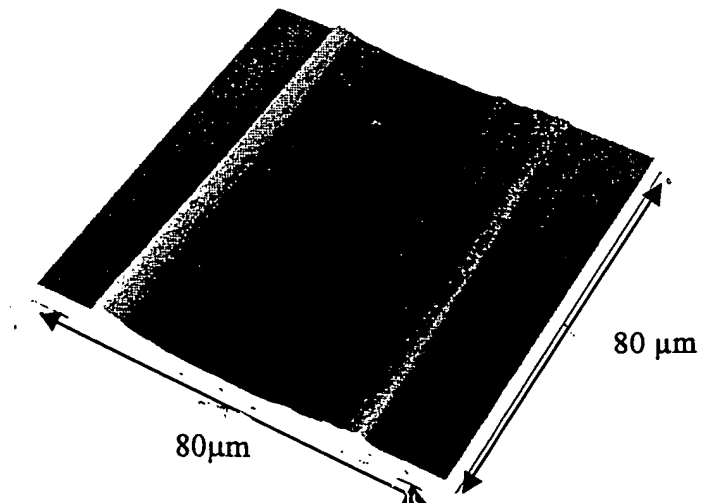


FIG. 9C



0094.050-12/16

Concentration of as-received Al_2O_3 in the dry gel film, wt%

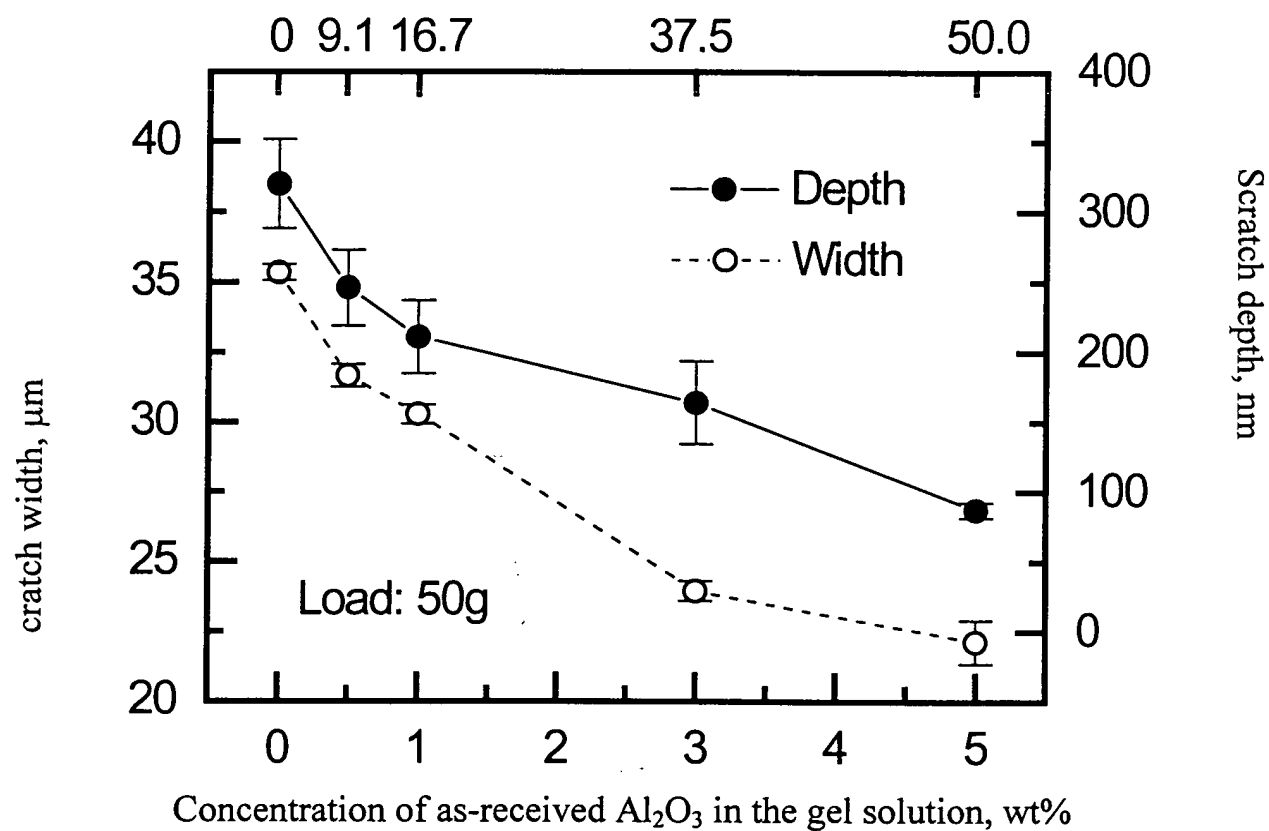


FIG. 10

Concentration of refined Al_2O_3 in the dry gel film, wt%

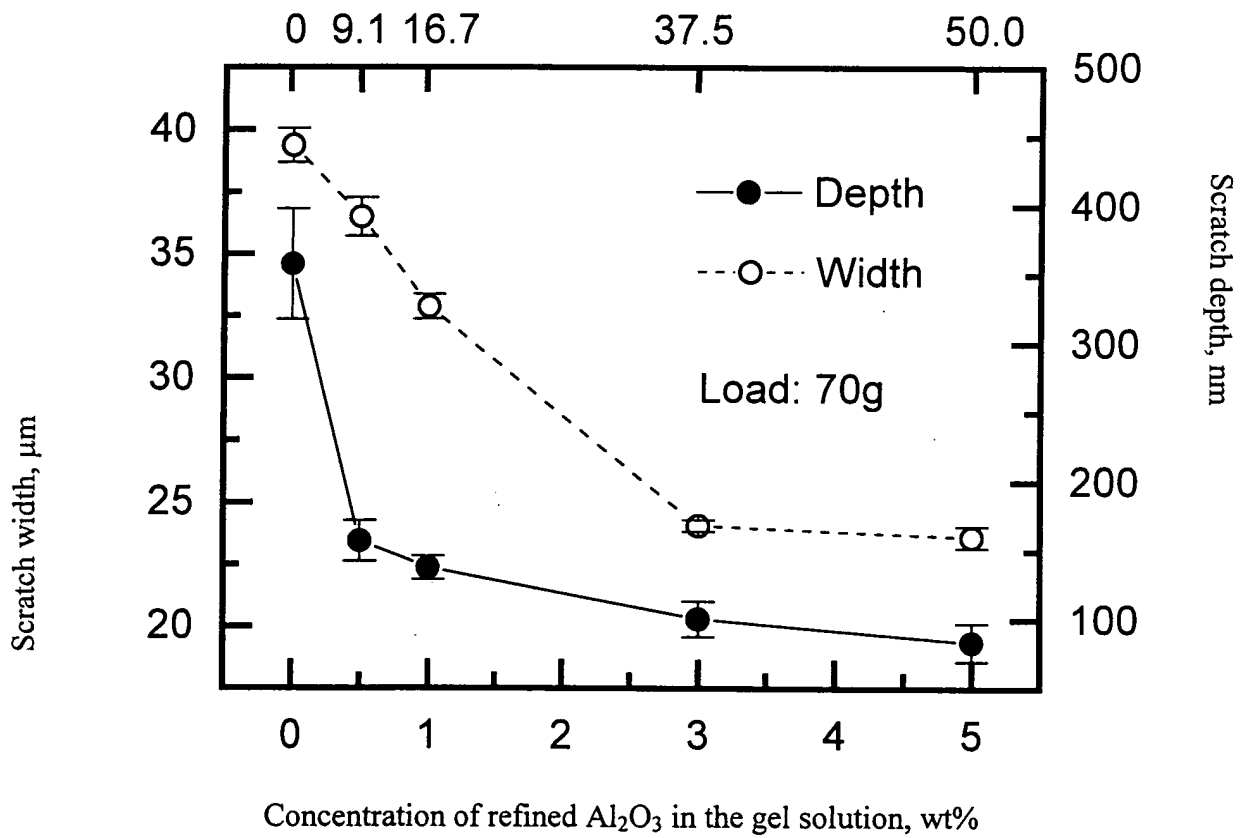


FIG. 11

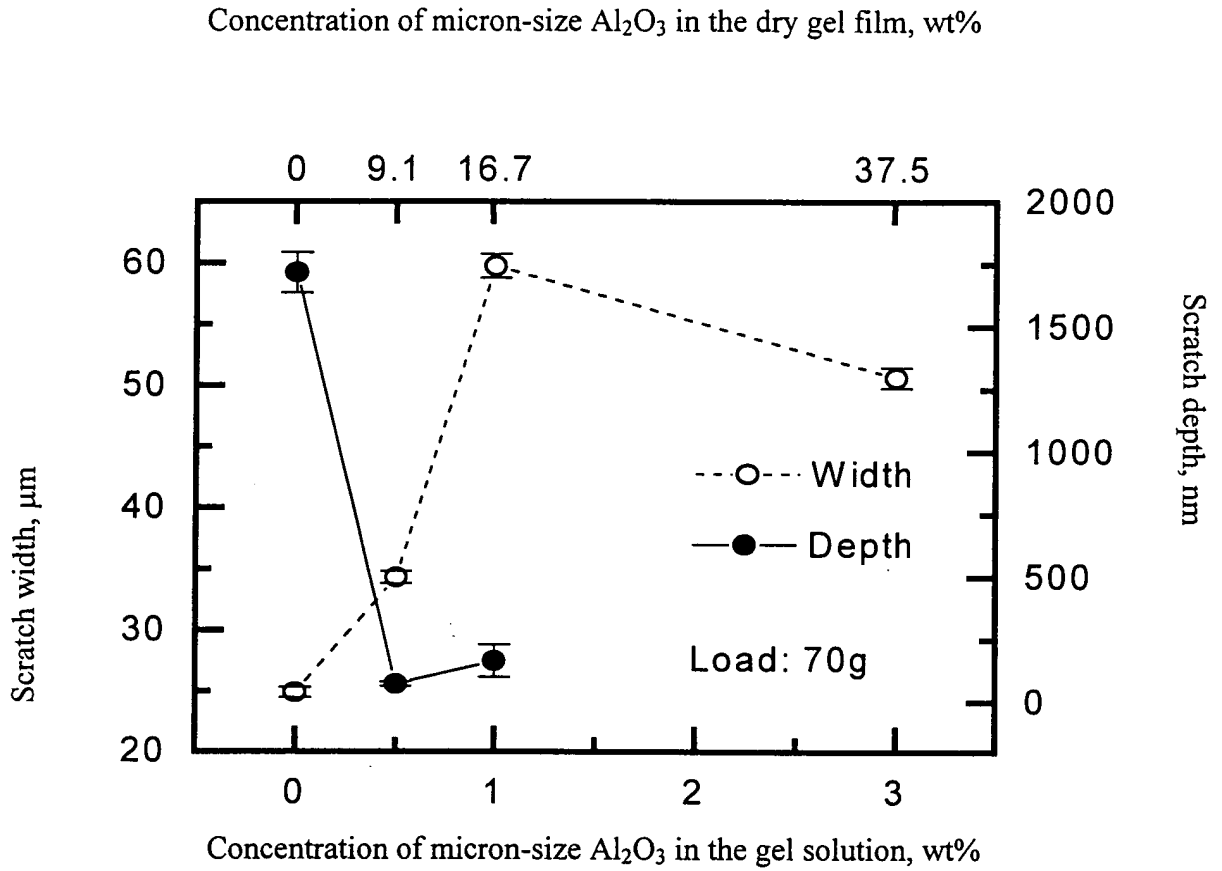
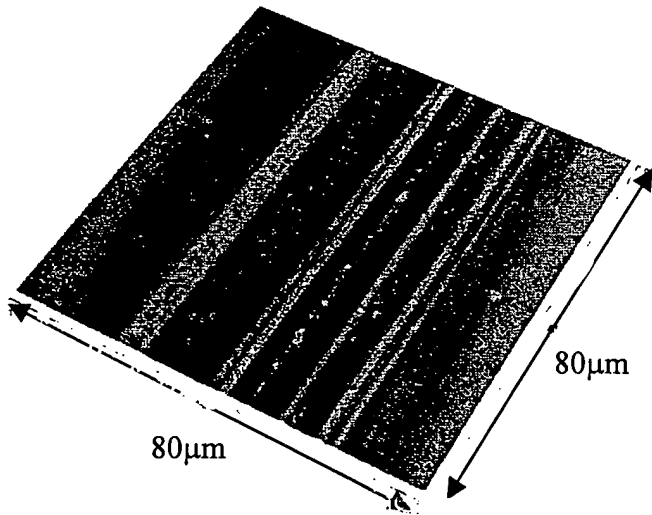


FIG. 12



A square sample of size 80 μm by 80 μm, showing a dark, textured surface with a grid pattern.

FIG. 13C